

United States of America  
Department of Transportation — Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* SA275NW

*This certificate, issued to* Merlyn Products, Inc.

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 4a of the Civil Air Regulations.*

*Original Product—Type Certificate Number:* A-766  
*Make:* Universal (Globe)  
*Model:* GC-1B

*Description of Type Design Change:*

Installation of a Lycoming 10-360-A, C, or D engine and a Hartzell HC-C2YK-1BF/F7666A-2 propeller in accordance with Merlyn Products, Inc. (MPI) Installation Instructions Report No. 03-1 .

*Limitations and Conditions:* Approval of this change in type design applies basically to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate, Addendum No. SA275NW and MPI Installation Instructions Report No. 03-1 shall be maintained as part of the permanent records for the modified aircraft.

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* December 30, 1974

*Date reissued:* July 15, 1986

*Date of issuance:* April 2, 1976

*Date amended:* July 12, 1978, July 15, 1986



*By direction of the Administrator*

*William B Ashworth*

(Signature)  
Manager, Seattle Aircraft  
Certification Office

(Title)

*Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.*

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**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* SA275NM

**SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA275NM**

The conditions and limitations of Type Certificate Data Sheet No. A-766 apply except where superseded by the following:

This Supplemental Type Certificate Addendum, which is part of STC SA275NW, prescribes the conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Civil Air Regulations. A copy of this STC Addendum is required to be maintained as part of the permanent records for the modified aircraft.

**SUPPLEMENTAL TYPE CERTIFICATE HOLDER:** Merlyn Products, Inc.

**I. UNIVERSAL GLOBE GC-1B SWIFT 9LANDPLANE-NORMAL CATEGORY) AS MODIFIED BY STC SA275NW**

Engine:	Lycoming IO-360-A, C, or D
Fuel:	100/130 Octane minimum grade aviation gasoline
Engine Limit:	All operations 2700 RPM (200 hp)
Propeller and Propeller Limits:	Hartzell Model HC-C2YK-1BF/F7666A-2 Diameter: 74 Inches Maximum 72 Inches Minimum Static Limits: 2650 RPM Maximum 2625 RPM Minimum Placard: See FAA Propeller Spec P-920-11 for applicable model placard warnings.
Powerplant Instrument Markings:	Oil Temperature: Green Arc 120°F to 245°F - Normal Operating Range Yellow Arc 60°F - Caution Red Line 245°F - Maximum  Oil Pressure: Green Arc 60 to 90 psi - Normal Operating Range Yellow Arc 25 to 60 psi and 90 psi to 100 psi - Caution Red Line 25 psi minimum, 100 psi maximum

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SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA275NM (Continued)

Powerplant Instrument

Markings (Continued):

Tachometer:

Green Arc 500 to 2700 RPM - normal operating range

Red Line 2700 RPM - maximum

Yellow Arc: See propeller placards

Fuel Pressure:

Green Arc 14 to 30 psi - normal operating range

Red Line 30 psi - maximum at sea level

C. G. Range:

(+29.6) to (+33.0)

Maximum Weight:

1710 lbs. (Same as Data Sheet A-766)

- END -

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